

**To:** Way, Steven[way.steven@epa.gov]  
**From:** Christner, Jan  
**Sent:** Mon 8/17/2015 4:18:34 PM  
**Subject:** GK Flow Variability  
[Gold King Flow Variability.docx](#)

See attached that also includes a graph.

Bullet Points:

- For years with multiple flow measurements (2009, 2010, 2011), the Gold King Mine discharge varied by up to 45 percent within 1 year (2009), when the November flow was 45 percent greater than the August flow.
- The Gold King Mine discharge annual average runoff flow varied from the annual average non-runoff flow by up to 22 percent (2010).
- Measurements in 2015 included 31 gallons per minute (gpm) on June 24 (similar to Fall 2014), and 69 gpm on July 15 and July 23.

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